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Computers in manufacturing: towards successful implementation of integrated automation system

[\[PDF\] from pteonline.org](#)

K Dhinesh Kumar, L. Karunamoorthy, H Roth... - Technovation, 2005 - Elsevier

... Openness and modularity: IA is open for a broad spectrum of field **devices**. ... Component-based automation: Networking and fieldbus technology considerably simplifies automation in plant and **machine construction**. ... This dramatically reduces the cost of on-**site** commissioning. ...

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[PDF] CRITICAL SUCCESS FACTORS FOR THE IMPLEMENTATION OF INTEGRATED AUTOMATION SOLUTIONS WITH PC BASED CONTROL

[\[PDF\] from nd.edu](#)

KD Kumar, H Roth... - Proc. of the 10th ..., 2002 - med.ee.nd.edu

... Openness and modularity: IA is open for a broad spectrum of field **devices**. ... based Automation on the basis of networking and field bus technology considerably simplifies automation in plant and **machine construction**. ... This dramatically reduces the cost of on-**site** commissioning. ...

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A self timed asynchronous router for an heterogeneous parallel machine

E Senn... - VLSI, 1998. Proceedings of the 8th ..., 2002 - ieeexplore.ieee.org

... Be- sides, a huge static memory would imply voluminous expensive power supply and cooling **devices**, would be voluminous itself ... controler, a set of adressing processors, memory banks and associated routers, makes a line of the **machine**, equivalent to ... Figure 4: **Construction** ...

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Construction equipment discovery on a network

D Brant, ED Hillen... - US Patent 7,363,137, 2008 - Google Patents

... For example, it can be determined: which units are the master **machines** and which ... wireless communi- The **network** system 100 can further include additional cation **device** 230 (eg ... may be personal computers, serv- computer) that can be carried by on **site construction** per- ers ...

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Distributed network application management system

OBH Clarisse... - US Patent 6,591,290, 2003 - Google Patents

... of processing resources by the use of the Inferno name space **construction** operations of ... is executed on the client process 321 executing on the user application **device** 131 to ... the hot spare replacement: 1. A group of identical server processes is distributed on different **machines**. ...

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Apparatus for providing shared virtual memory among **interconnected** computer nodes with minimal processor involvement

J Sandberg - US Patent 5,592,625, 1997 - Google Patents

... In the multiprocessor realm, the processors interact in performing programs and sharing resources such as input and output **devices**. ... The sharing of distributed memory eliminates memory-read communications between **interconnected machines**, since each **site** in the ...

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The CRUTIAL way of critical infrastructure protection

AN Bessani, P Sousa, M Correia... - Security & Privacy, ..., 2009 - [ieeexplore.ieee.org](#)

... **Site B Site C** ... To solve the first problem, we use some **device** (for example, an Ethernet hub) to broadcast the traffic to all replicas ... His research interests include the **construction** of secure distributed systems, namely the design of dependable intrusion-tolerant architectures and ...

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Human-machine interface system mediating human-computer interaction in communication of information on **network**

T Fujimori - US Patent App. 09/004,460, 2001 - Google Patents

... application nodes, service nodes and composite nodes **interconnected** with a **network**. Herein, human-machine interface functions are actualized in forms of distributed objects allocated to the nodes and are realized by mediating interaction between the nodes (or **devices**). ...

[All 2 versions](#)

A mechanism for the dynamic **construction** of clusters using active networks

[\[PDF\] from psu.edu](#)

P Graham... - Parallel Processing Workshops, 2001. ..., 2002 - [ieeexplore.ieee.org](#)

... The selected **site** then becomes a single point of failure and both the **site** and surrounding ... **Devices** at the **network** edges (which connect to host **machines**) can derive their information through ...

The **construction** of a simple RAList is illustrated in Figure 5. In this example, there ...

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VLSI considerations for TESH: A new hierarchical interconnection **network** for 3-D integration

VK Jain... - Very Large Scale Integration (VLSI) ..., 2002 - [ieeexplore.ieee.org](#)

... Clearly, the plane (large area **device**) described earlier can easily support the vertical wiring needed for ... be well suited both for planar VLSI implementation, as well as 3-D stack **construction**. ... to other familiar networks, making it a viable candidate for the future tera-ops **machines**. ...

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Risk and reliability assessment for telecommunications networks

GD Wyss, HK Schriner... - 1996 - osti.gov

... model (likely a small fault tree) that examines the combinations of server **machines** that must ... This section describes the **construction** of generic fault tree modules and the method by ... traffic routing and switching hardware, and a generic class of end mer **devices**) and architectures ...

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Network architecture and communication modules for guaranteeing acceptable control and communication performance for networked multi-agent systems

[\[PDF\] from niu.edu.tw](#)

FL Lian, JK Yook, DM Tilbury... - ... , IEEE Transactions on, 2006 - ieeexplore.ieee.org

... Networked controllers may also provide a human-**machine** interface to operators or higher-level managers ... In next section, we will discuss the **construction** of a networked control design chart ... To guarantee the best control performance, all the net- worked **devices** need the newly ...

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Method for updating value in distributed shared virtual memory among interconnected computer nodes having page table with minimal processor involvement

J Sandberg - US Patent 5,522,045, 1996 - Google Patents

... memory eliminates memory-read communica- tions between **interconnected machines**, since each **site** in the ... the structure, control and arrange- ment of these well-known circuits and **devices** are illustrated ... The inventor does not wish to be limited to a strict **construction** of those ...

[Cited by 44](#) - [Related articles](#) - [All 2 versions](#)

Web links objects

MG MacPhail - US Patent 6,597,377, 2003 - Google Patents

... The method involves **construction** of a web links object that contains information regarding the links between ... can store the links object (such as one created by the web **site** designer), or ... relates to computer sys- tems and, more particularly, to a method and **device** for examining ...

[Cited by 20](#) - [Related articles](#) - [All 2 versions](#)

System and method for dynamic browser management of web site

J Estrada, MA Estrada... - US Patent 7,237,002, 2007 - Google Patents

... NH (US); Maurice E. Shore, Carlisle, MA (US) (73) Assignee: International Business **Machines** Corporation, Armonk ... "QuickPlace Provides Web-Based Work **Site**", PC World ... DATABASE SERVER EILE SYSTEM M39 130 DOMINO DATABASES .nsf NOTES **NETWORK** I PRIOR ...

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Probabilistic Logic Modeling of **Network** Reliability for Hybrid **Network** Architectures

GD Wyss, HK Schriener... - Icn, 1996 - computer.org

... systems ranging from individual components within automobiles to large precision **machine** tools and ... This section describes the **construction** of generic fault tree modules and the method by which ... MAUs, CAUs, ethernet hubs, and a generic class of end- user **devices**) in generic ...

[Cited by 2](#) - [Related articles](#) - [BL Direct](#) - [All 9 versions](#)

Partial crossbar **interconnect** architecture for reconfigurably connecting multiple reprogrammable logic **devices** in a logic emulation system

MR Butts... - US Patent 5,448,496, 1995 - Google Patents

... Other reconfigurable **interconnect** topolo- gies are also detailed. ... Schmitz, "Emulation of VLSI **Devices** using LCAs," VLSI Systems Design, May 20, 1987, pp. 54-62. Abramovici et al, "A Logic Simulation **Machine**," 19th Design Automation Conference, Paper 7.4, 1982, pp. ...

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[PDF] Give Me Back My Personal Mainframe! Lessons Learned from Plan B and Position Statement

[\[PDF\] from psu.edu](#)

FJ Ballesteros... - Laboratorio, 2006 - Citeseer

... This simplified the **construction** of tools without having to modify a fileVserver pro gram that decodes a more ... Placing an indirection between I/O **devices** and name spaces. ... be enough to let us cope with resources like audio that may be attached to different **machines** at different ...

[Related articles](#) - [View as HTML](#) - [All 24 versions](#)

Algebraic tools for system **construction**

J Bergstra, J Klop... - Logics of Programs, 1984 - Springer

... level s.ymbolic programming level register-transfer level logic level circuit level **device** level ... asks for a generalisation of the von Neumann and other **machine**- language hierarchies ... Hierarchical aspects of system **construction** are treated only through the simple algebraic idea of ...

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[CITATION] Performance Evaluation of Awerbuch-Peleg and GSM Schemes for Location Tracking of Mobile Users

IP Weerakoon, DP Sidhu - ... of the 1998 ..., 1996 - Society for Computer Simulation ...

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Automatic configuration for internet access **device**

JY Li, AL Cobbs... - US Patent 6,012,088, 2000 - Google Patents

... 73] Assignee: International Business **Machines** Corporation, Armonk ... of presence (POP) for an Internet service provider that has connections for various communications **devices** used by ... access **device** that allows **communication between** the Internet and a local area **network** of a ...

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Apparatus and method in **hierarchy** of internet web pages for fast return to a **network** page

KP Gibson - US Patent 6,052,716, 2000 - Google Patents

... system or IBM " Aptiva" computer, both products of International Business **Machines** Corporation, located ... such as a conventional microprocessor, and a number of other units **interconnected** via system ... 28, speaker 46, microphone 48, and/or other user interface **devices**, such as ...

[Cited by 10](#) - [Related articles](#) - [All 2 versions](#)

Methods and apparatus for interfacing a computer or small **network** to a wide area **network** such as the internet

K Krishnan - US Patent 6,157,950, 2000 - Google Patents

... example, the output of a laser printer is far superior to that of a facsimile **machine**, go Therefore ... 1 is exemplary small office LAN 20, **interconnecting** computers 21-24 ... **devices**, such as printer 25, are connected directly to LAN 20, 20 whereas other peripheral **devices** are connected ...

[Cited by 52](#) - [Related articles](#) - [All 2 versions](#)

Intelligent mechatronic components: control system engineering using an open distributed architecture

V Vyatkin - ... and Factory Automation, 2003. Proceedings. ETFA ... , 2003 - [ieeexplore.ieee.org](#)

... components into a system - it would be enough to **interconnect** the automation ... to): control, visualization, diagnostics, simulation, implementation of human-**machine** interfaces, etc. ... **communication** proxies implement the exchange of adapter interfaces **between devices** by means ...

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Method, computer program product, and system for deriving web transaction performance metrics

WW Chiu, N Halim, JL Hellerstein... - US Patent ..., 2004 - Google Patents

... S. Squillante, Pound Ridge, NY (US) (73) Assignee: International Business **Machines** Corporation, Armonk ... and a web server and their associated applications **interconnected** by a ... workstation, hand-held computer, information appliance, etc., including related peripheral **devices**. ...

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Method of storing and classifying selectable web page links and sublinks thereof to a predetermined depth in response to a single user input

DM Adams, J Maddalozzo Jr, GF McBrearty... - US Patent ..., 2001 - Google Patents

... Shieh, Austin, all of TX (US) (73) Assignee: International Business **Machines** Corporation, Armonk ...

be described as a system of geographically distributed remote computer networks **interconnected**

by 55 ... a client displays a browser and data received from the **network** is displayed ...

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Bridging the gap **between** pervasive **devices** and global networks

[\[PDF\] from icvy.de](#)

D Henricl, P de Waha... - ... Technologies and Systems, ..., 2008 - [ieeexplore.ieee.org](#)

... lives: Whether in cars, home entertainment **devices** or in household appliances like washing

machines, they can ... But with the high number of **devices** and the trend of **interconnecting** those

using networks ... Up to level 5, a strict **hierarchy** of **devices** is used to bridge the **device** gap ...

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[\[PDF\]](#) Distributed computing

[\[PDF\] from uva.es](#)

ML Liu - Distributed Computing, 2007 - [infor.uva.es](#)

... called centralized computing. • A distributed system is a collection of independent computers,

interconnected via a ... perform computing • Server **machines**: computers which provide ... pooling

of resources, including CPU cycles, data storage, input/output **devices**, and services. ...

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Multi-route client-server architecture

P Zulli - US Patent 6,639,901, 2003 - Google Patents

... types of **machines** and **devices**, particularly when such **machines** and **devices** are **interconnected**

to a ... The invention is applicable to any sort of **machine** or **device** which might benefit ... there are

large numbers of telephones or other per- sonal communications **devices** adhering to ...

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Service-oriented architectures for **devices**-the SIRENA view


F Jammes... - ... Informatics, 2005. IND#N05. 2005 3rd ..., 2005 - [ieeexplore.ieee.org](#)


... 11] is a protocol for plug-and-play, ad hoc discovery of **network**-connected resources. ... Today,

machine controls are categorized according to their physical functionality (PLC, motion control,

regula ... Thus, **devices** can be integrated into higher-level subsys- tems, possibly at various ...

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Service oriented security **device** management **network**

M Gaug - US Patent App. 11/449,657, 2006 - Google Patents

... messages and data buses; scanning **machine** (or associate) databases; scanning **machine** file system ... of command signals; remote configuration of individual security **devices**; threat image ... searching, displaying, and managing threat data over a distributed **network**; update of ...

[All 2 versions](#)

Devices and systems for automatic information exchange **between** **communication** terminals and electronic databases

JF Cooling... - US Patent App. 11/011,763, 2004 - Google Patents

... Packet switches, or **network** routers, forward IP datagrams across **interconnected** layer 2 networks. ... for example, is a software standard for transferring computer files **between** **machines** with different ... stored in rooms full of disk drives or other peripheral electronic storage **devices**. ...

[All 2 versions](#)

[PDF] An abstract **communication** model

U Glässer, Y Gurevich... - ... Technical Report MSR-TR-2002-55, 2002 - Citeseer

... 3 From Abstract State **Machines** to AsmL ... The multitude of communicators reflects the fact that a TCP/IP **network** consists of distinct **interconnected** physical networks. ... **devices** are available (ie reachable over the **network**), what are the services advertised by **devices**, and when ...

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Cluster computing: the commodity supercomputer

M Baker... - Software: Practice and Experience, 1999 - interscience.wiley.com

... Although most commonly used for disks, other **devices** such as CD-ROMs, printers and scanners are ... It is a proprietary, high performance **interconnect** used in many of the more expensive ... on a wide range of platforms from tightly coupled, massively parallel **machines**, through to ...

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Method for web based storage and retrieval of documents

RA Skarbo, CJ Clitheroe, CC Lawless... - US Patent ..., 2001 - Google Patents

... 106. (Note that the server 100 and videoconferencing equipment 102 may be incorporated into a single computing **device**.) Each of these computing **devices** is **interconnected** by a **network** 108. For ...

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[\[PDF\] Content Creation on the Web: Mashing Up the Real World With the Internet](#)

V Trifa - Proceedings of The First International Workshop on ... - vs.inf.ethz.ch

... a set of reusable, modular, and interoperable software components that will allow to seamlessly **interconnect** any type ... to reuse widely used Web standards to build an interoperable **network** of heterogenous **devices** that can be found and used both by **machines** and humans ...

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[Bridging the Gap **Between** Pervasive **Devices** and Global Networks \(long version\)](#)

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D Henrici, P de Waha ... - 2008 - dspace.icsy.de

... Whether in cars, home entertainment **devices** or in household appliances like washing **machines**, they can be ... But with the high number of **devices** and the trend of **interconnecting** those using ... An MC detects changes regarding the sensor and actuator **devices** it is responsible for ...

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[Method and system for dynamic information exchange on mesh **network devices**](#)

R Wang - US Patent App. 11/880,271, 2007 - Google Patents

... not limited to, multimedia capable desktop and laptop computers, facsimile **machines**, mobile phones ... adsl.com." [0036] An operating environment for **devices** and inter- faces of the ... on the processing system or be distributed among multiple **interconnected** processing systems ...

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[Service-oriented paradigms in industrial automation](#)

[\[PDF\] from psu.edu](#)

F Jammes... - Industrial Informatics, IEEE Transactions ..., 2005 - ieeexplore.ieee.org

... Today, **machine** controls are categorized according to their physical functionality (programmable logic ... of the XML-based Web Services para- digm for **interconnecting** heterogeneous applications ... and data exchange **between devices**, as well as **between devices** and applications ...

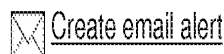
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[Information and **Communication** Facilities in Internet](#)

A Andreica - Studia Universitatis Babes-Bolyai-Studia Europaea, 1998 - CEEOL

... 5] contains autonomous computers (which can function independently), **interconnected** by various ... The possibility of connecting mobile computation **devices** within LANs or WANs is ... correct transmission for data flows **between** different **machines** (**addressing** mechanisms use IP ...

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